

Fig 1

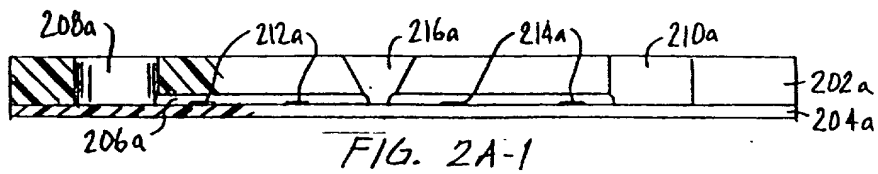


FIG. 2A-1

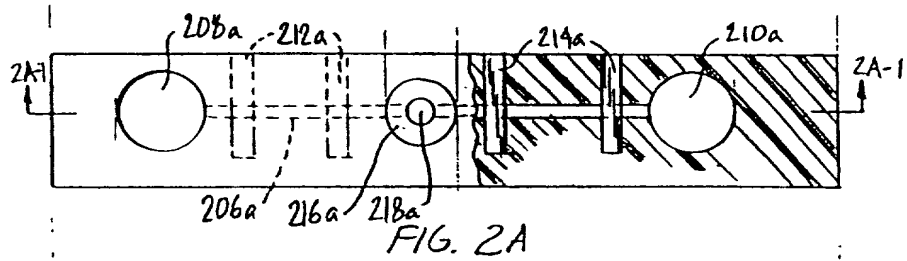


FIG. 2A

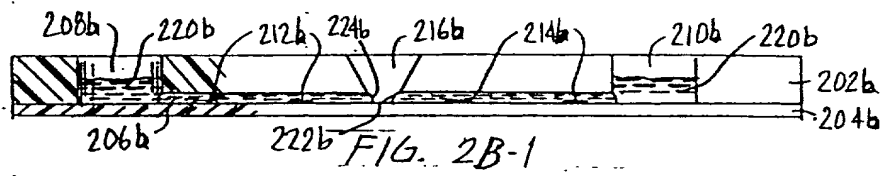


FIG. 2B-1

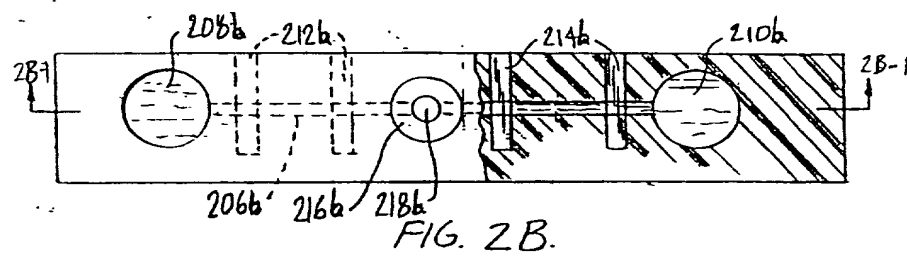


FIG. 2B

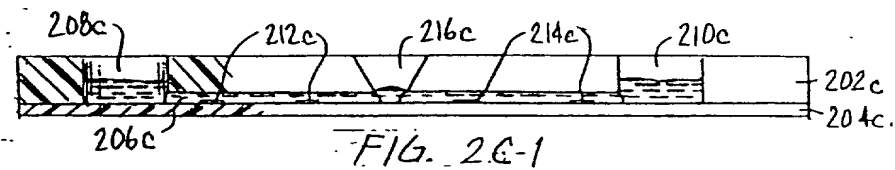


FIG. 2C-1

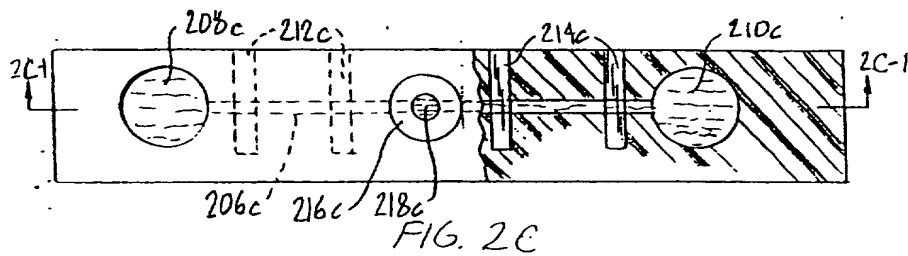


FIG. 2C

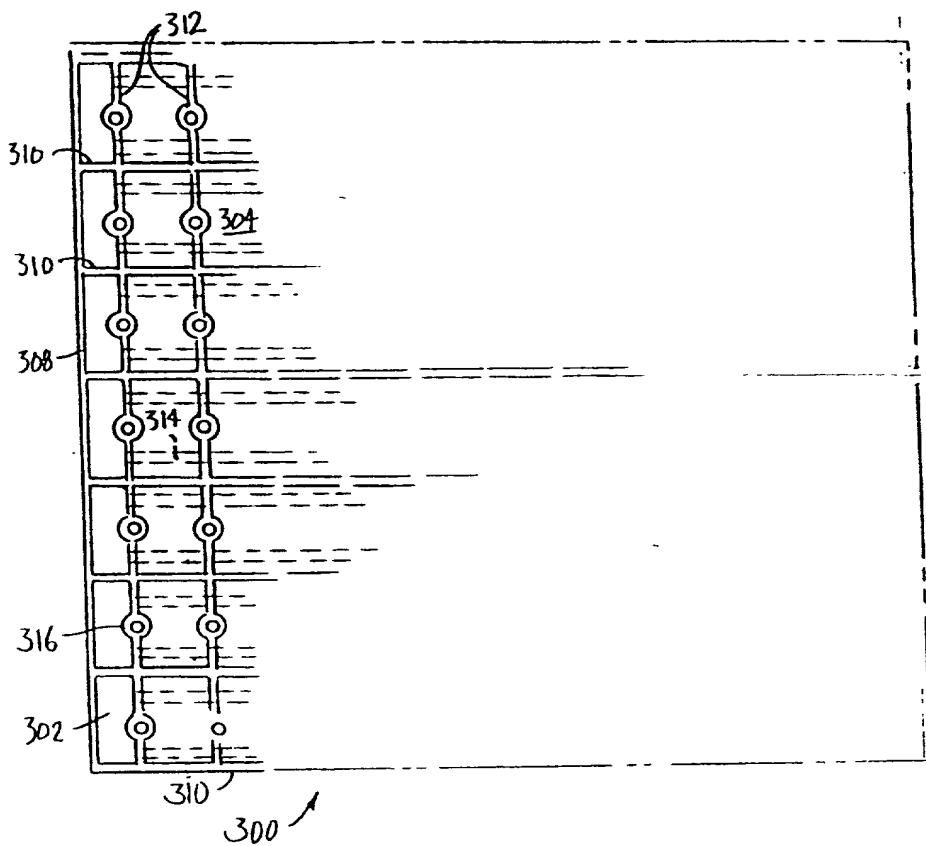


FIG. 3.



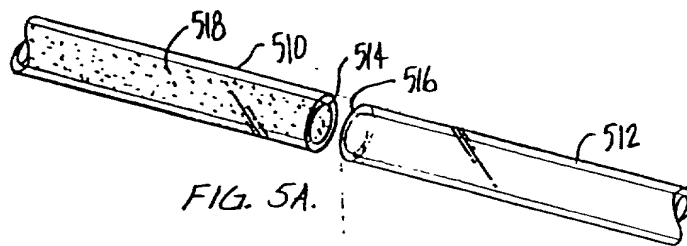


FIG. 5A.

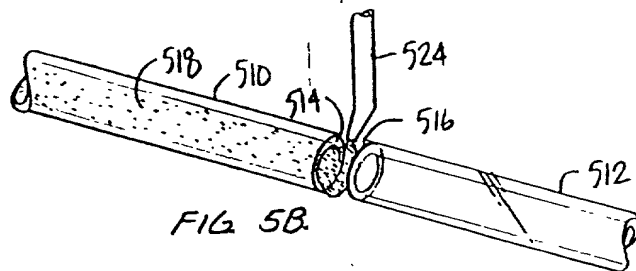


FIG. 5B.

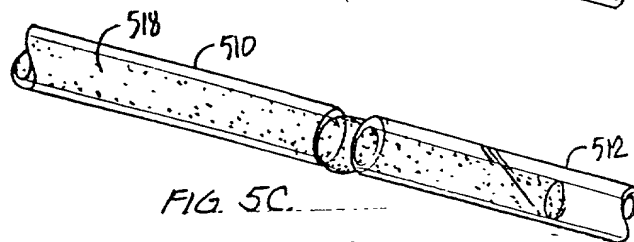
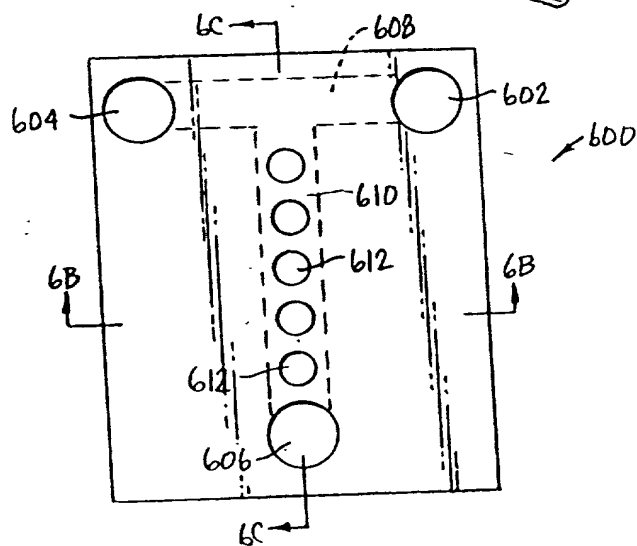


FIG. 5C.



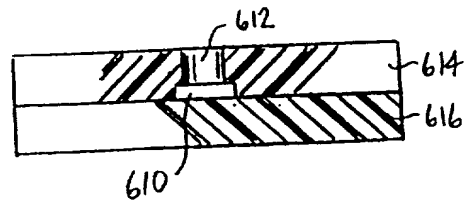


FIG. 6B

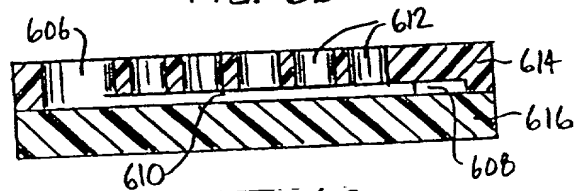


FIG. 6C

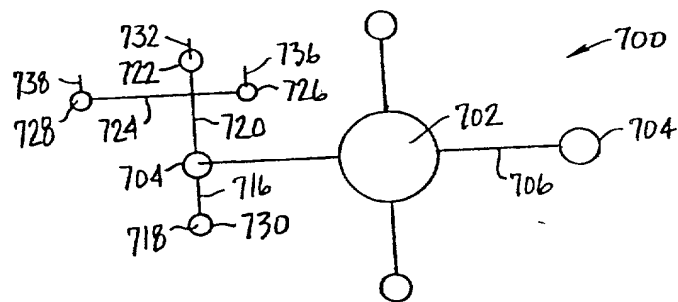


FIG. 7A

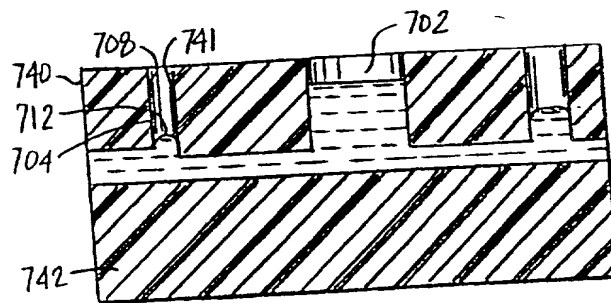


FIG. 7B

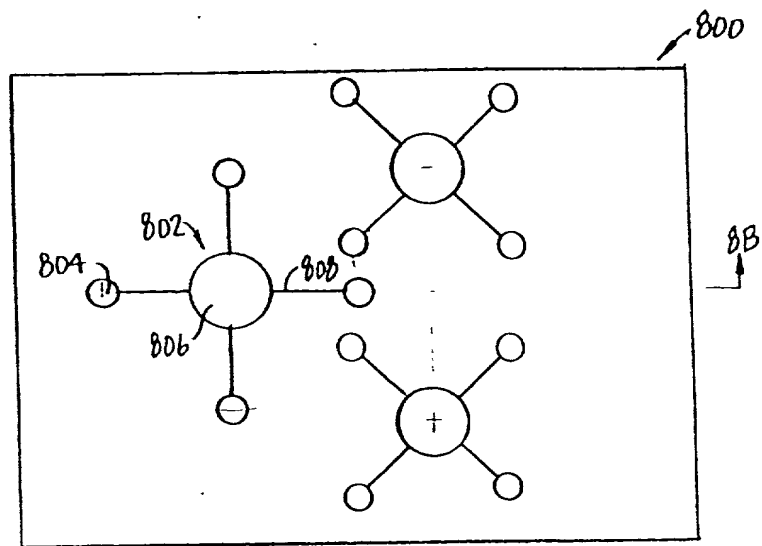


FIG. 8A.

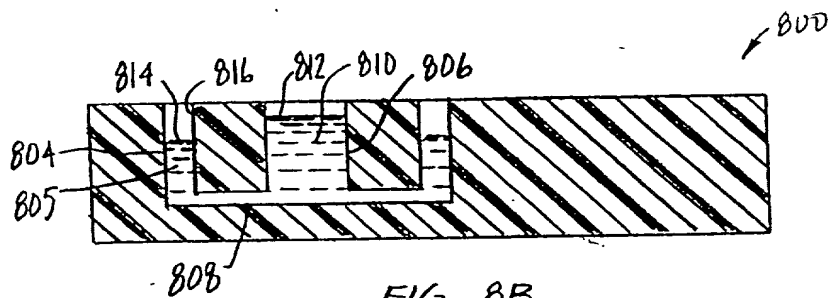


FIG. 8B.

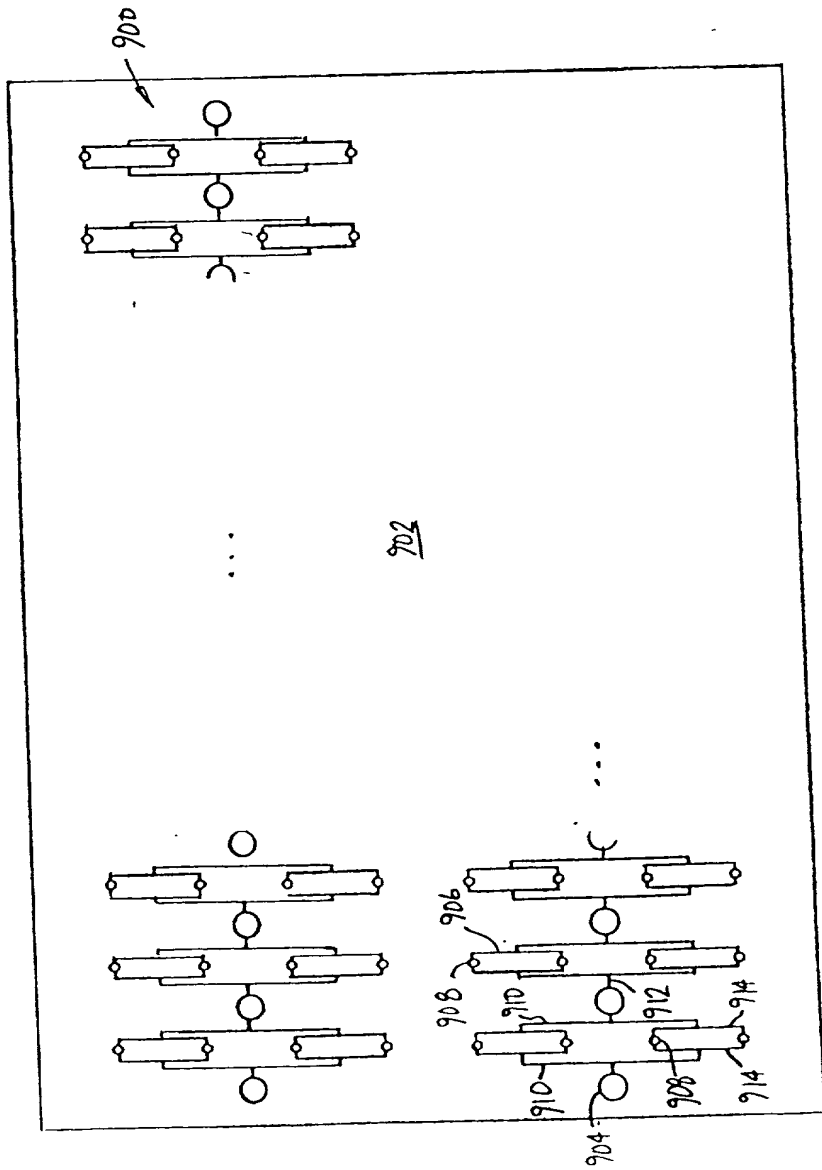


FIG. 9



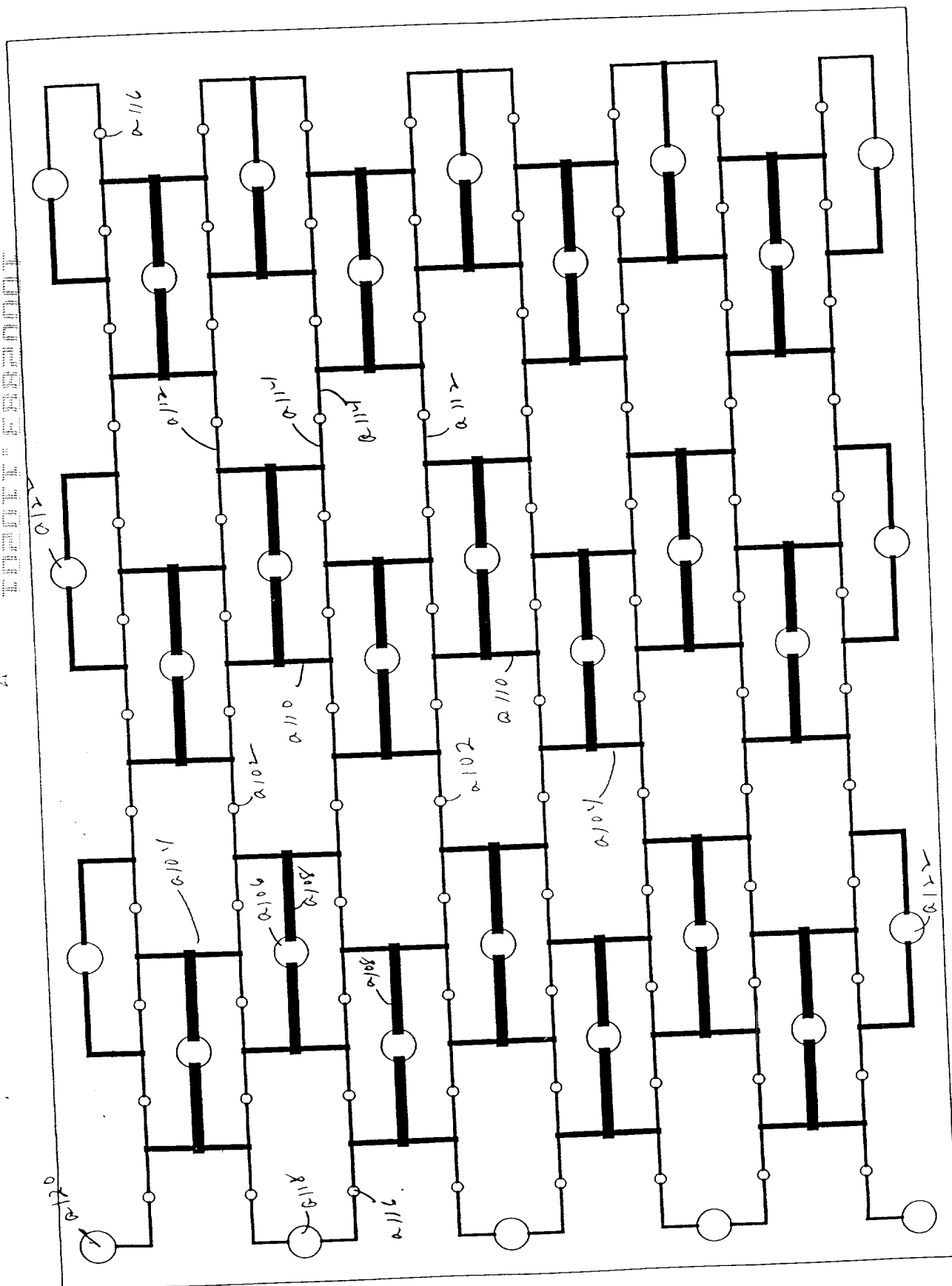


Fig 10

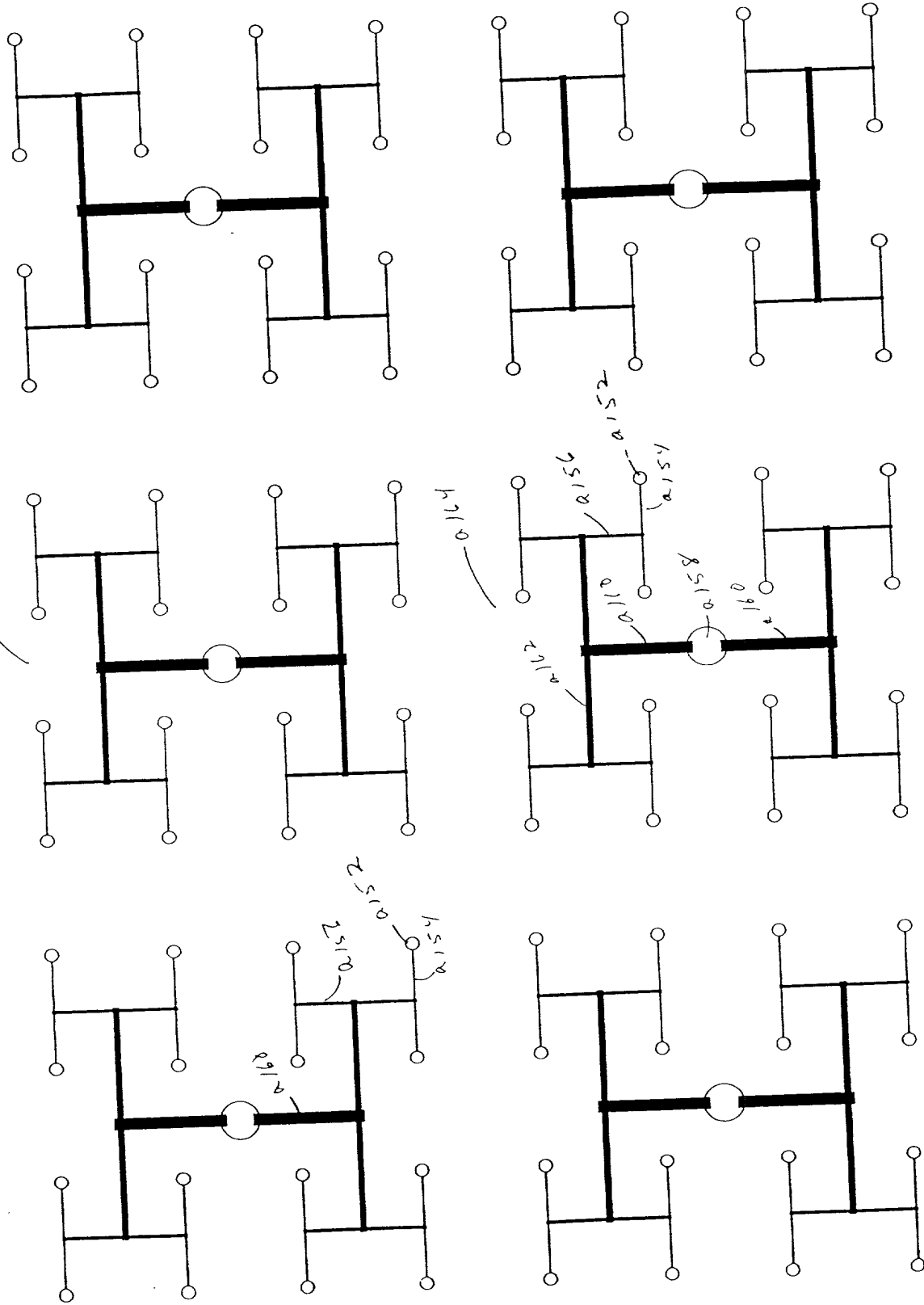


Fig 11

✓ a200 a202  
 "array" element

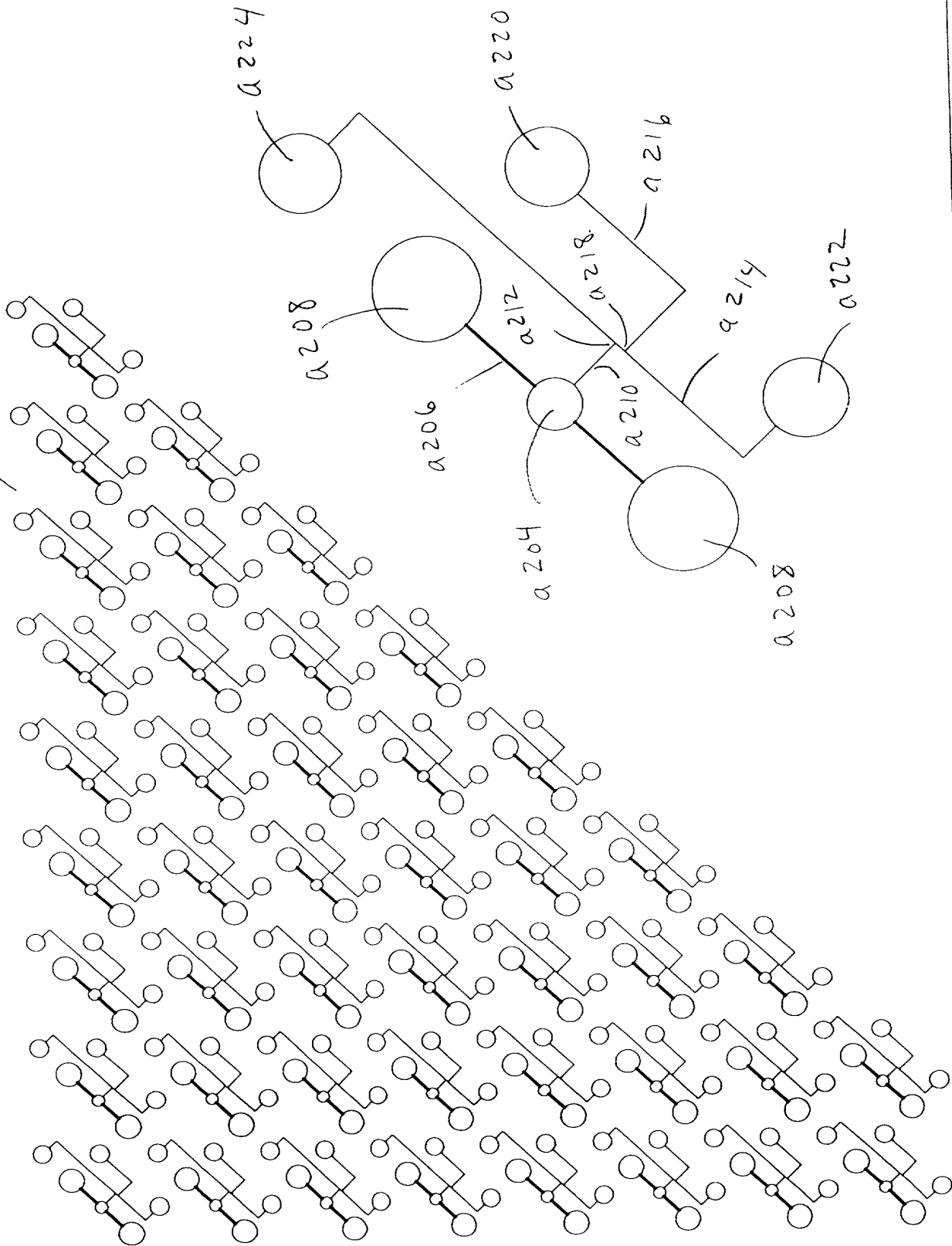


Fig 12

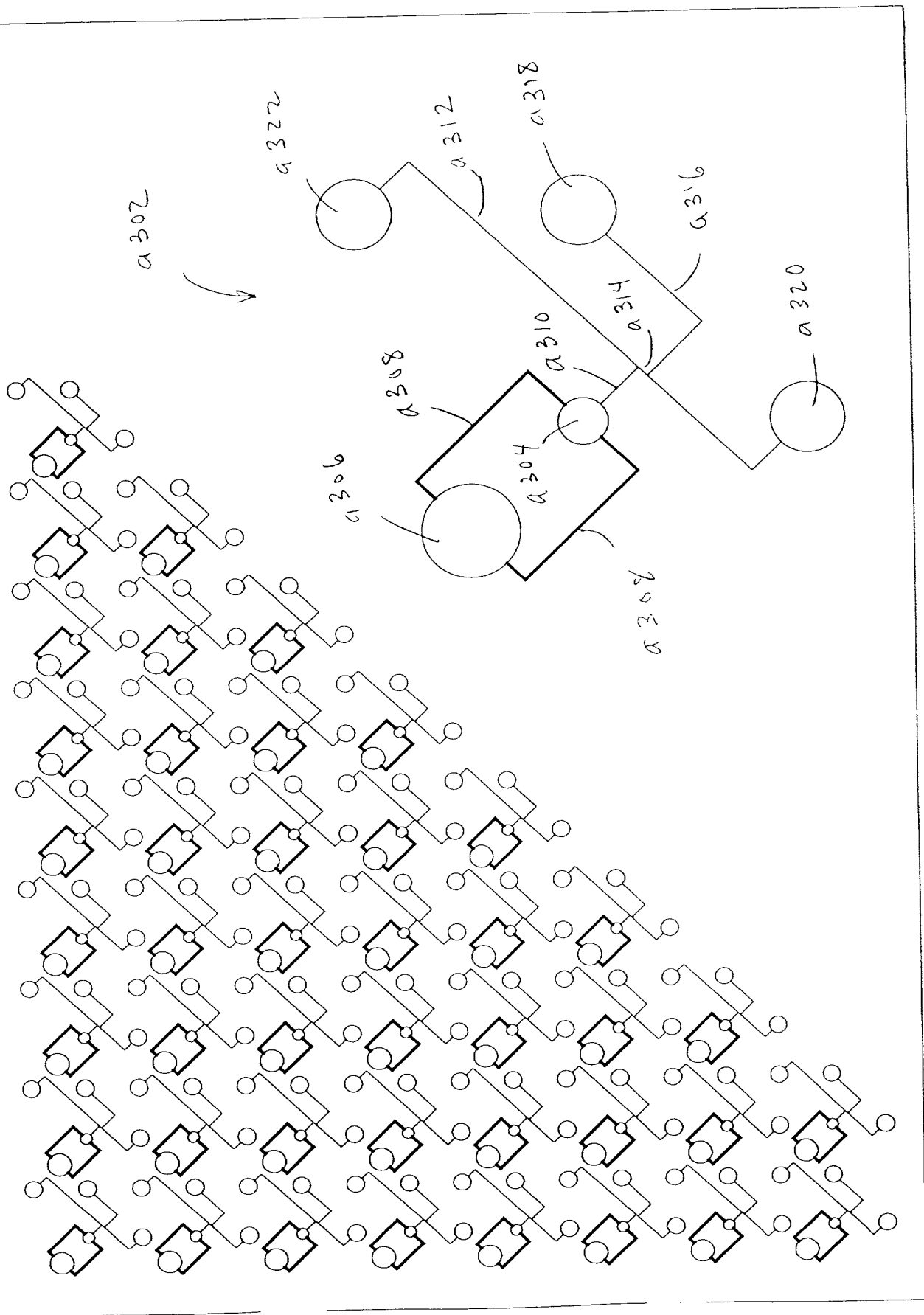


Fig. 13

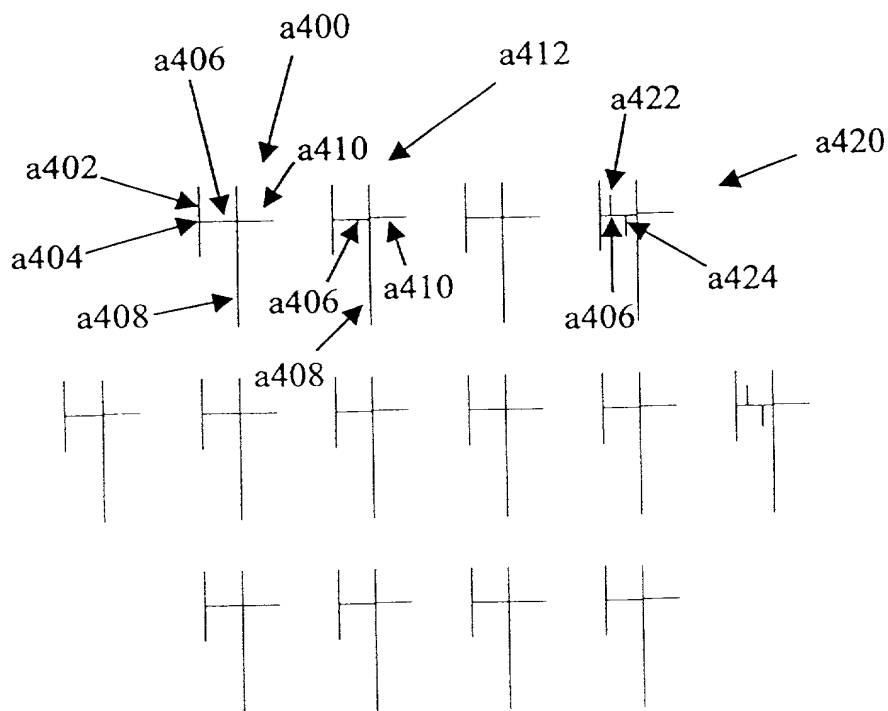


Figure 14

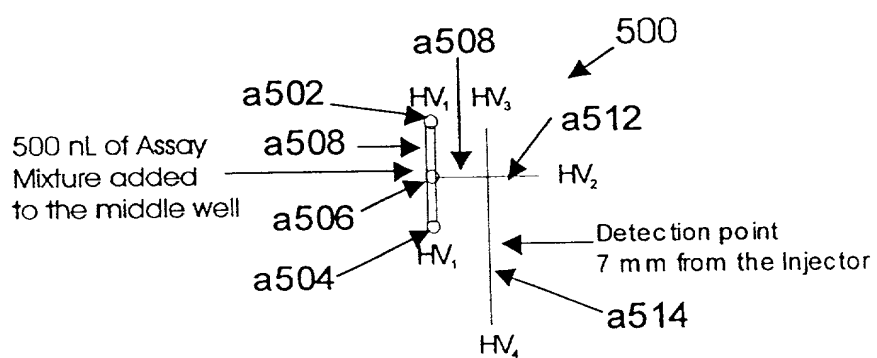


Figure 15

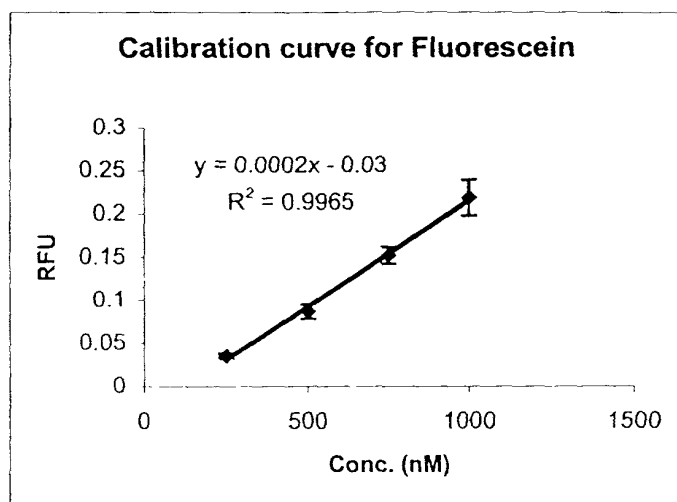


Figure 16: Calibration curve for fluorescein using Card. Experimental conditions: buffer 10.0 mM CHES pH=10.0, and 1% PEO; voltage configurations as shown in Table ; PMT voltage, 400 V;

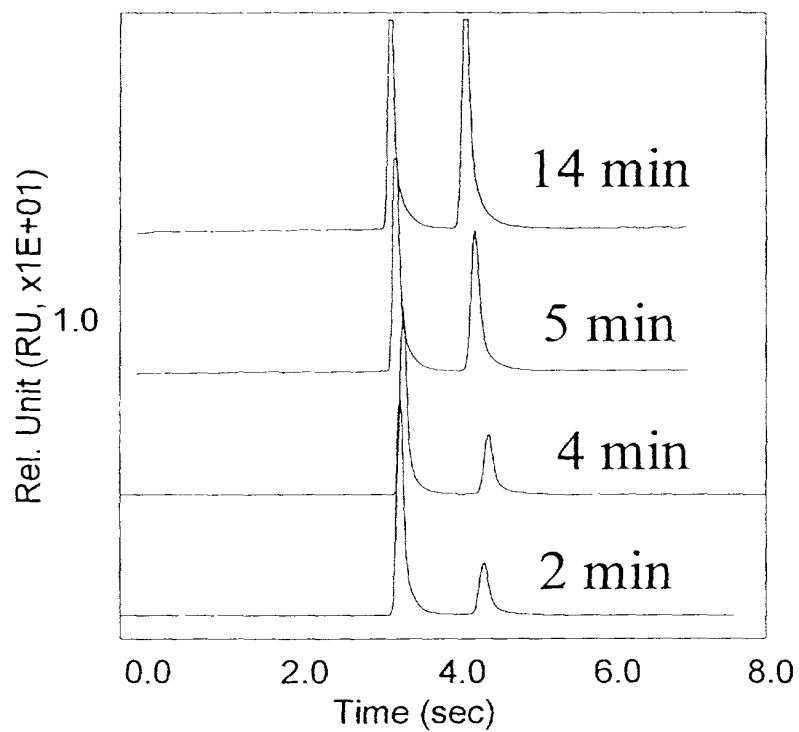


Figure 17: Alkaline phosphatase assay using Card, Effect of the Incubation Time. Experimental conditions: buffer 10.0 mM CHES pH=10.0, and 1% PEO; voltage configurations as shown in Table ; PMT voltage, 800 V; Alkaline phosphatase was 1.33 mU/ml; FDP concentration, 3.33  $\mu$ M.

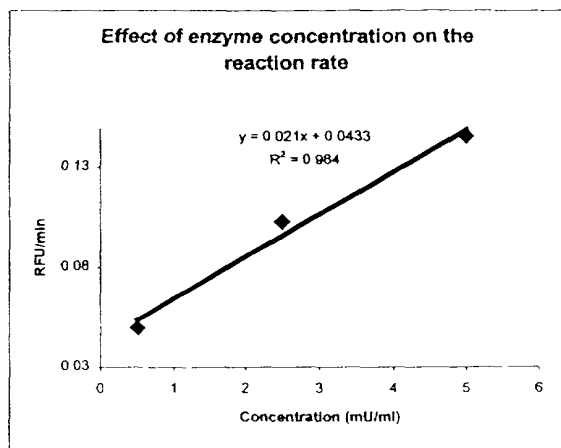


Figure 18: Calibration curve for alkaline phosphatase enzyme. Experimental conditions: buffer 10.0 mM CHES pH=10.0, and 1% PEO; voltage configurations as shown in Table; PMT voltage, 500 V; FDP concentration, 3.33  $\mu$ M



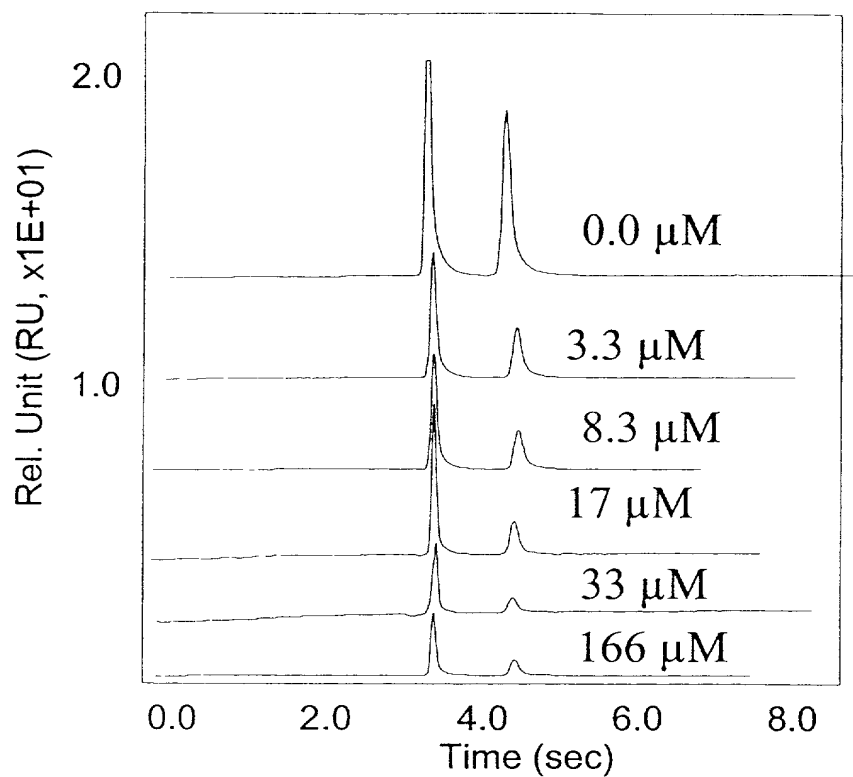


Figure 19: Alkaline Phosphatase Assay using Card. Effect of the Inhibitor Concentration (PNPP). Experimental conditions: buffer 10.0 mM CHES pH=10.0, and 1% PEO; voltage configurations as shown in Table ; PMT voltage, 800 V; Alkaline phosphatase was 1.33 mU/ml; FDP concentration, 3.33  $\mu$ M and different concentration of PNPP as shown in the Figure; incubation time, 10 min.

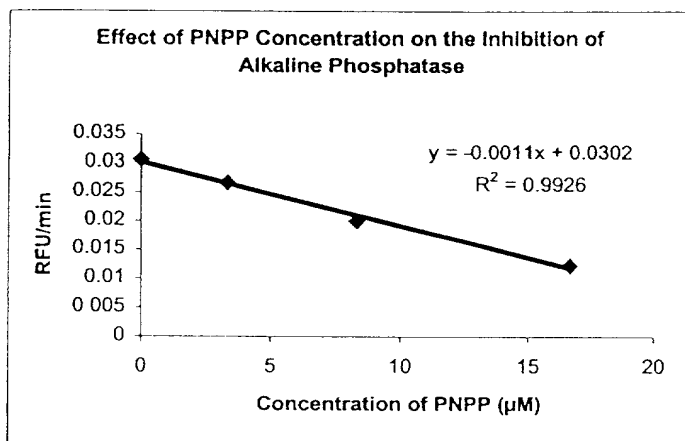


Figure 20: Alkaline Phosphatase assay using Card. Calibration Curve for PNPP. Experimental conditions: buffer 10.0 mM CHES pH=10.0, and 1% PEO; voltage configurations as shown in Table ; PMT voltage, 800 V; Alkaline phosphatase concentration was 1.33 mU/ml; FDP concentration, 3.33 μM.